

Geometry
 Unit 5A - Circles
 Day 1 Homework - Parts of Circles

Name Key
 Date _____ Block _____

1. Use the diagram to answer the following:

Circle: $\odot C$

Point of Tangency: B

Center: C

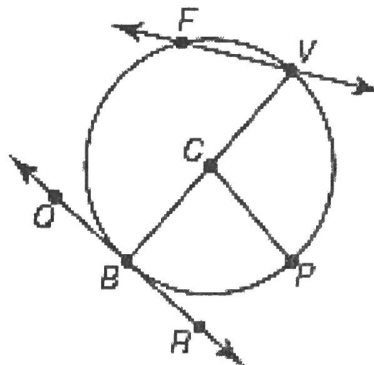
Tangent: \overleftrightarrow{QR} , \overleftrightarrow{QB} , \overleftrightarrow{BR}

Diameter: \overline{BV}

Secant: \overleftrightarrow{FV}

All Chords: \overline{FV} , \overline{BV}

All Radii: \overline{CV} , \overline{CB} , \overline{CP}



2. Identify and name each of the following. Be sure to use the correct notation.

a. Two different central angles $\angle DOC$, $\angle BOC$

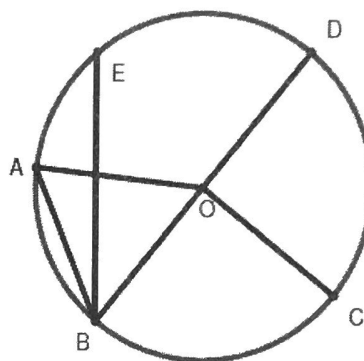
b. A minor arc \widehat{BC} , \widehat{DC}

c. A major arc \widehat{DCA}

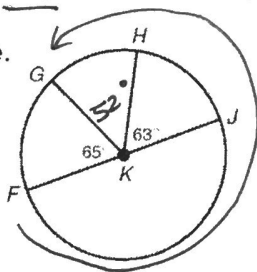
d. A semicircle \widehat{BOD}

e. Two different chords \overline{BE} , \overline{AB}

f. The central angle subtended by \widehat{AD} $\angle AOD$

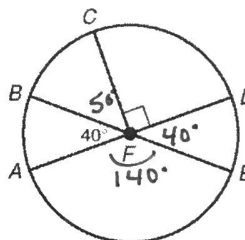


Find each measure.



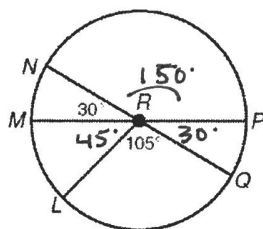
3. $m\widehat{HJ}$ 63°

4. $m\widehat{FHG}$ 295°



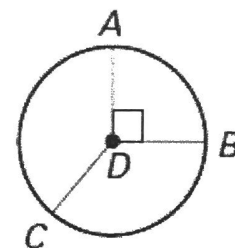
5. $m\widehat{CE}$ $90 + 40 = 130^\circ$

6. $m\widehat{BDC}$ $360 - 50 = 310^\circ$



7. $m\widehat{NP}$ 150°

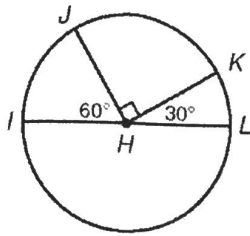
8. $m\widehat{LNP}$ $45 + 30 + 150 = 225^\circ$



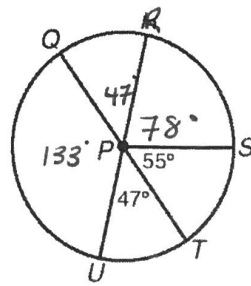
9. $m\widehat{AB}$ 90°

10. $m\widehat{ACB}$ $360 - 90 = 270^\circ$

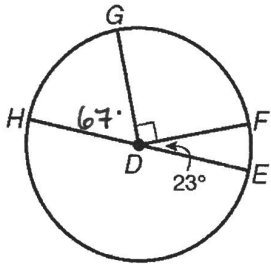
11. $m\widehat{CA}$ 135°



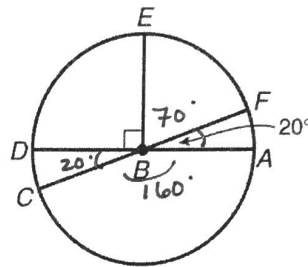
12. $m\widehat{LK}$ 30° , $m\widehat{IK}$ $60+90=150^\circ$



13. $m\widehat{QS}$ 125° , $m\widehat{QT}$ 227°
 $47+78$ $47+133+47$

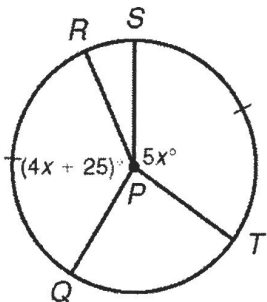


14. $m\widehat{HG}$ 67° , $m\widehat{FEH}$ 203°
 $180+23$



$90-20=70$
 $180-20=160$

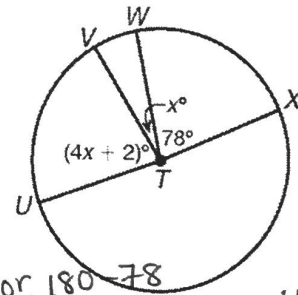
15. $m\widehat{EF}$ 70° , $m\widehat{CEA}$ 200°
 $180+20$



$4x+25=5x$
 $25=x$

16. $\angle QPR$ 125°

$5(25)=$



$4(20)+2+20 \leq 180-78$ $4(20)+2$

17. $\angle UTW$ 102° , $m\widehat{UV}$ 82°

$4x+2+x+78=180$

$5x+80=180$

$5x=100$

$x=20$